Scientific Drilling

E.O.G.

Field: New
Site: Eddy County, NM
Well: New 25 Fed #1H
Wellpath: VH - Job #32K0606502
Survey: 06/23/06

This survey is correct to the best of my knowledge
and is supported by actual field data.

.....Company Representative

Notorized this date 24th of July, 2006.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas

DEBORAH SUE BYNUM
Notary Public, State of Texas
My Commission Expires
5/9/08

Scientific Drilling

Scientific Drilling International
Survey Report

Company:	E.O.G.	**Date:** 07/23/2006	**Time:** 22:51:20	**Page:**	1
Field:	New	**Co-ordinate(NE) Reference:**	Site: Eddy County, NM, Grid North		
Site:	Eddy County, NM	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	New 25 Fed #1H	**Section (VS) Reference:**	Well (0.00N,0.00E,0.04Azi)		
Wellpath:	VH - Job #32K0606502	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

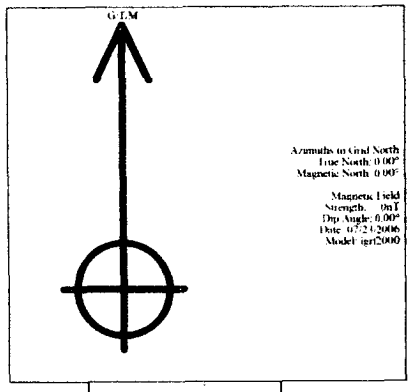
Survey:	06/23/06 KSRG 0'-4449'	**Start Date:**	06/23/2006
Company:	Scientific Drilling Internatio	**Engineer:**	Guebara/Rehders
Tool:	Keeper;Keeper Surface Readout Gyro	**Tied-to:**	From Surface

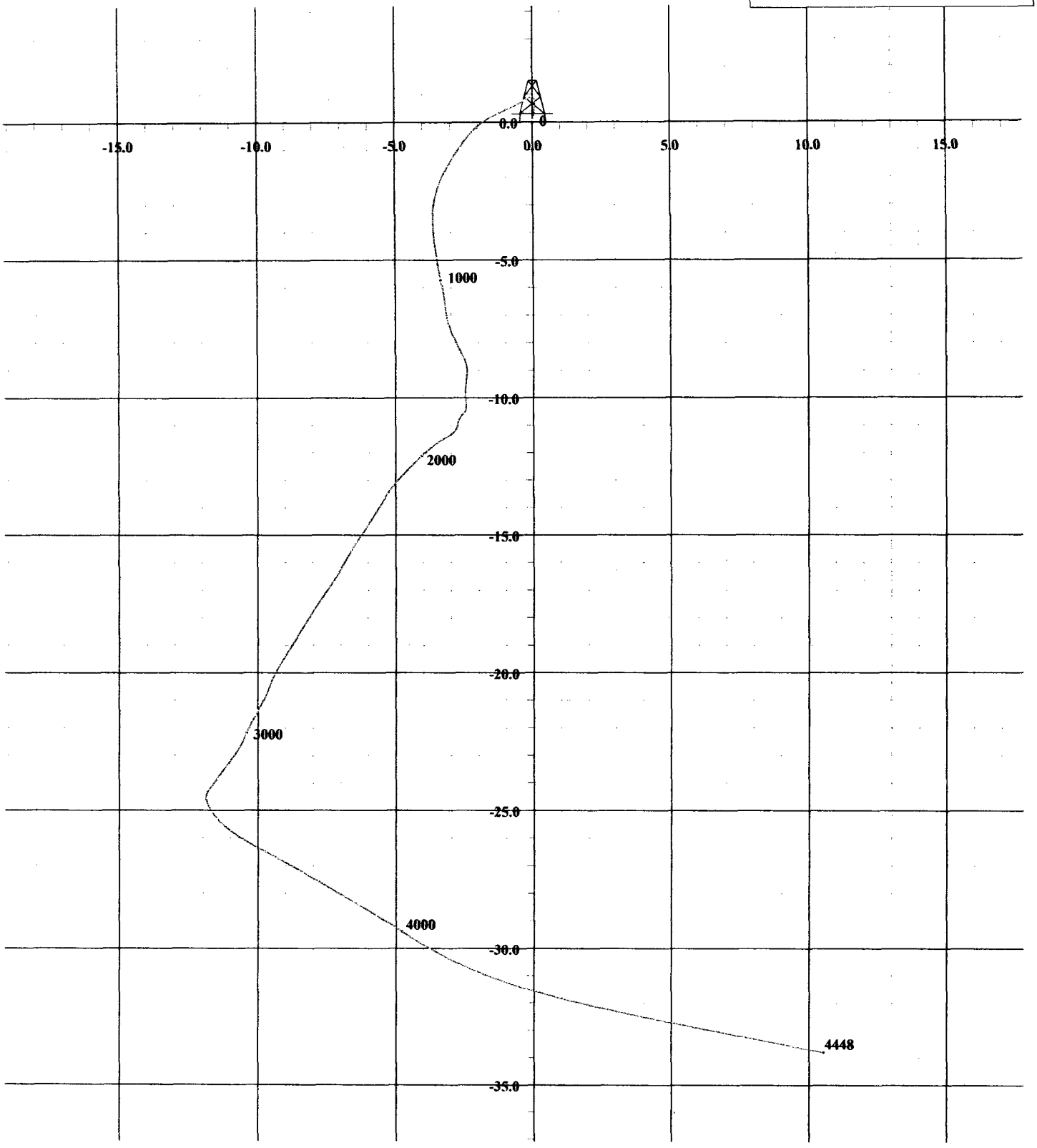
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.57	7.88	100.00	0.49	0.49	0.07	0.57	0.49	7.88
200.00	0.24	247.72	200.00	0.90	0.90	-0.06	0.72	0.90	356.20
300.00	0.40	240.60	300.00	0.65	0.65	-0.56	0.16	0.86	319.18
400.00	0.46	248.35	399.99	0.33	0.33	-1.24	0.08	1.28	284.85
500.00	0.53	230.80	499.99	-0.11	-0.11	-1.97	0.17	1.97	266.73
600.00	0.72	214.99	599.98	-0.92	-0.92	-2.69	0.25	2.84	251.12
700.00	0.67	205.57	699.98	-1.96	-1.96	-3.30	0.12	3.84	239.29
800.00	0.69	186.71	799.97	-3.09	-3.09	-3.62	0.22	4.76	229.57
900.00	0.83	171.72	899.96	-4.40	-4.40	-3.59	0.24	5.68	219.20
1000.00	0.71	168.19	999.95	-5.72	-5.72	-3.36	0.13	6.63	210.42
1100.00	0.52	175.52	1099.95	-6.78	-6.78	-3.20	0.20	7.49	205.25
1200.00	0.52	155.28	1199.94	-7.64	-7.64	-2.97	0.18	8.20	201.25
1300.00	0.51	154.30	1299.94	-8.45	-8.45	-2.59	0.02	8.84	197.04
1400.00	0.24	187.96	1399.93	-9.06	-9.06	-2.43	0.33	9.38	195.00
1500.00	0.40	184.92	1499.93	-9.62	-9.61	-2.49	0.16	9.93	194.50
1600.00	0.28	167.15	1599.93	-10.20	-10.20	-2.46	0.16	10.49	193.58
1700.00	0.22	230.05	1699.93	-10.56	-10.56	-2.56	0.26	10.86	193.61
1800.00	0.33	190.83	1799.93	-10.96	-10.96	-2.76	0.21	11.30	194.12
1900.00	0.47	244.25	1899.93	-11.43	-11.42	-3.18	0.38	11.86	195.56
2000.00	0.83	225.69	1999.92	-12.11	-12.11	-4.07	0.41	12.77	198.58
2100.00	0.59	221.56	2099.91	-13.00	-13.00	-4.93	0.24	13.90	200.76
2200.00	0.61	208.96	2199.91	-13.85	-13.85	-5.53	0.13	14.91	201.76
2300.00	0.67	214.78	2299.90	-14.80	-14.79	-6.12	0.09	16.01	202.47
2400.00	0.83	209.63	2399.89	-15.91	-15.90	-6.81	0.17	17.30	203.18
2500.00	0.69	215.12	2499.88	-17.03	-17.03	-7.51	0.15	18.61	203.81
2600.00	0.84	211.03	2599.88	-18.15	-18.15	-8.24	0.16	19.93	204.42
2700.00	0.83	212.93	2699.86	-19.39	-19.38	-9.01	0.03	21.37	204.93
2800.00	0.56	198.74	2799.86	-20.46	-20.45	-9.56	0.32	22.58	205.05
2900.00	0.51	212.21	2899.85	-21.30	-21.29	-9.95	0.13	23.50	205.06
3000.00	0.62	203.69	2999.85	-22.17	-22.16	-10.41	0.13	24.48	205.16
3100.00	0.34	214.99	3099.84	-22.91	-22.90	-10.80	0.29	25.31	205.24
3200.00	0.49	215.23	3199.84	-23.50	-23.49	-11.21	0.15	26.03	205.52
3300.00	0.41	220.30	3299.84	-24.12	-24.11	-11.69	0.09	26.79	205.86
3400.00	0.24	170.59	3399.84	-24.60	-24.59	-11.88	0.31	27.31	205.80
3500.00	0.43	146.39	3499.84	-25.12	-25.11	-11.64	0.23	27.67	204.88
3600.00	0.71	125.86	3599.83	-25.79	-25.78	-10.93	0.34	28.00	202.97
3700.00	0.98	116.98	3699.82	-26.54	-26.54	-9.66	0.30	28.24	200.01
3800.00	1.27	120.52	3799.80	-27.49	-27.49	-7.95	0.30	28.61	196.13
3900.00	1.01	119.77	3899.78	-28.49	-28.49	-6.23	0.26	29.16	192.33
4000.00	0.92	123.95	3999.77	-29.38	-29.37	-4.80	0.11	29.76	189.28
4100.00	1.26	118.31	4099.75	-30.35	-30.34	-3.16	0.36	30.51	185.95
4200.00	1.89	107.68	4199.71	-31.37	-31.37	-0.62	0.69	31.37	181.13
4300.00	2.72	101.77	4299.63	-32.35	-32.35	3.28	0.86	32.52	174.22
4400.00	2.90	100.81	4399.51	-33.31	-33.31	8.08	0.19	34.28	166.36
4449.00	2.91	101.50	4448.45	-33.78	-33.79	10.52	0.07	35.39	162.71

Scientific Drilling

Field: New
Site: Eddy County, NM
Well: New 25 Fed #1H
Wellpath: VH - Job #32K0606502
Survey: 06/23/06





Pathfinder Energy
Survey Report

Company:	EOG Resources	**Date:** 7/5/2006 **Time:** 11:02:29	**Page:** 1
Field:	Thames Field	**Co-ordinate(NE) Reference:**	Well: New 25 Fed #1H, Grid North
Site:	New 25 Fed #1H	**Vertical (TVD) Reference:**	SITE 3647.0
Well:	New 25 Fed #1H	**Section (VS) Reference:**	Well (0.00N,0.00E,0.04Azi)
Wellpath:	Original Hole	**Survey Calculation Method:**	Minimum Curvature **Db:** Sybase

Field: Thames Field
Eddy, Co. NM
USA

Map System:	US State Plane Coordinate System 1927	**Map Zone:**	New Mexico, Eastern Zone
Geo Datum:	NAD27 (Clarke 1866)	**Coordinate System:**	Well Centre
Sys Datum:	Mean Sea Level	**Geomagnetic Model:**	igrf2005

Site: New 25 Fed #1H

S-25, T-25S, R-24E

Site Position:		**Northing:**	686960.30 ft	**Latitude:**	32	53	18.136	N
From:	Map	**Easting:**	437987.90 ft	**Longitude:**	104	32	7.251	W
Position Uncertainty:	0.00 ft			**North Reference:**			Grid	
Ground Level:	3647.00 ft			**Grid Convergence:**			-0.11	deg

Well: New 25 Fed #1H **Slot Name:**

Well Position:	+N/-S 0.00 ft	**Northing:**	686960.30 ft	**Latitude:**	32	53	18.136	N
	+E/-W 0.00 ft	**Easting :**	437987.90 ft	**Longitude:**	104	32	7.251	W
Position Uncertainty:	0.00 ft							

Wellpath: Original Hole **Drilled From:** Surface
Tie-on Depth: 0.00 ft

Current Datum:	SITE **Height** 3647.00 ft	**Above System Datum:**	Mean Sea Level
Magnetic Data:	6/24/2006	**Declination:**	8.66 deg
Field Strength:	49445 nT	**Mag Dip Angle:**	60.75 deg

Vertical Section: Depth From (TVD) ft	+N/-S ft	+E/-W ft	Direction deg
0.00	0.00	0.00	0.04

Survey: Pathfinder MWD Surveys **Start Date:** 6/27/2006

Company: Pathfinder Energy **Engineer:** Midwellplan
Tool: **Tied-to:** From: Definitive Path

Survey: Pathfinder MWD Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
4300.00	2.72	101.77	4299.63	-32.37	3.27	-32.36	0.00	0.00	0.00	
4342.00	2.81	83.04	4341.58	-32.45	5.27	-32.44	2.15	0.21	-44.60	
4373.00	4.04	46.91	4372.53	-31.61	6.82	-31.60	7.82	3.97	-116.55	
4405.00	6.60	26.79	4404.39	-29.20	8.47	-29.19	9.78	8.00	-62.87	
4436.00	10.20	23.71	4435.05	-25.09	10.38	-25.08	11.70	11.61	-9.94	
4468.00	13.89	22.39	4466.34	-18.94	12.98	-18.93	11.56	11.53	-4.12	
4499.00	17.67	20.28	4496.17	-11.09	16.03	-11.07	12.33	12.19	-6.81	
4531.00	21.46	18.44	4526.32	-0.97	19.57	-0.96	12.00	11.84	-5.75	
4562.00	25.50	16.59	4554.74	10.81	23.27	10.82	13.25	13.03	-5.97	
4593.00	29.37	14.57	4582.25	24.56	27.09	24.58	12.84	12.48	-6.52	
4624.00	33.24	11.14	4608.74	40.27	30.64	40.29	13.74	12.48	-11.06	
4656.00	36.58	7.89	4634.98	58.32	33.65	58.35	11.94	10.44	-10.16	
4687.00	40.10	4.11	4659.29	77.44	35.63	77.47	13.64	11.35	-12.19	
4719.00	43.35	0.95	4683.17	98.71	36.55	98.74	12.09	10.16	-9.87	
4750.00	47.04	359.72	4705.02	120.70	36.67	120.72	12.23	11.90	-3.97	
4782.00	51.27	359.54	4725.94	144.90	36.52	144.93	13.23	13.22	-0.56	
4813.00	56.28	359.10	4744.25	169.90	36.22	169.92	16.20	16.16	-1.42	
4844.00	61.11	358.22	4760.36	196.37	35.59	196.39	15.77	15.58	-2.84	
4876.00	64.90	357.43	4774.88	224.86	34.51	224.88	12.05	11.84	-2.47	
4907.00	67.18	357.17	4787.47	253.15	33.17	253.18	7.39	7.35	-0.84	
4939.00	70.08	357.26	4799.13	282.91	31.73	282.94	9.07	9.06	0.28	
4970.00	73.34	357.61	4808.85	312.31	30.41	312.34	10.57	10.52	1.13	
5001.00	76.41	357.70	4816.94	342.21	29.18	342.23	9.91	9.90	0.29	
5033.00	79.40	358.14	4823.65	373.48	28.05	373.50	9.44	9.34	1.37	

Pathfinder Energy
Survey Report

Company:	EOG Resources	**Date:** 7/5/2006 **Time:** 11:02:29 **Page:**	2
Field:	Thames Field	**Co-ordinate(NE) Reference:**	Well: New 25 Fed #1H, Grid North
Site:	New 25 Fed #1H	**Vertical (TVD) Reference:**	SITE 3647.0
Well:	New 25 Fed #1H	**Section (VS) Reference:**	Well (0.00N,0.00E,0.04Azi)
Wellpath:	Original Hole	**Survey Calculation Method:**	Minimum Curvature **Db:** Sybase

Survey: Pathfinder MWD Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
5065.00	83.19	358.14	4828.49	405.08	27.02	405.10	11.84	11.84	0.00	
5096.00	86.70	357.96	4831.22	435.94	25.97	435.96	11.34	11.32	-0.58	
5127.00	88.46	357.96	4832.53	466.89	24.87	466.91	5.68	5.68	0.00	
5159.00	88.72	358.31	4833.32	498.87	23.83	498.88	1.36	0.81	1.09	
5190.00	90.48	358.49	4833.53	529.85	22.96	529.87	5.71	5.68	0.58	
5222.00	92.24	359.01	4832.77	561.83	22.27	561.85	5.73	5.50	1.62	
5253.00	92.15	358.84	4831.59	592.81	21.68	592.82	0.62	-0.29	-0.55	
5284.00	91.71	358.40	4830.54	623.78	20.94	623.79	2.01	-1.42	-1.42	
5316.00	91.28	359.19	4829.71	655.76	20.27	655.78	2.81	-1.34	2.47	
5348.00	91.19	359.19	4829.02	687.75	19.81	687.76	0.28	-0.28	0.00	
5379.00	91.10	359.19	4828.40	718.74	19.38	718.75	0.29	-0.29	0.00	
5410.00	90.84	359.01	4827.87	749.73	18.89	749.75	1.02	-0.84	-0.58	
5473.00	90.04	357.78	4827.39	812.70	17.12	812.72	2.33	-1.27	-1.95	
5536.00	89.52	356.82	4827.63	875.63	14.16	875.64	1.73	-0.83	-1.52	
5599.00	89.78	356.82	4828.02	938.53	10.66	938.54	0.41	0.41	0.00	
5662.00	91.10	355.67	4827.53	1001.39	6.54	1001.40	2.78	2.10	-1.83	
5725.00	91.28	354.79	4826.22	1064.16	1.30	1064.16	1.43	0.29	-1.40	
5787.00	90.84	354.36	4825.08	1125.87	-4.56	1125.87	0.99	-0.71	-0.69	
5851.00	89.25	352.77	4825.03	1189.47	-11.73	1189.46	3.51	-2.48	-2.48	
5914.00	90.22	351.72	4825.32	1251.89	-20.24	1251.87	2.27	1.54	-1.67	
5978.00	90.04	351.19	4825.17	1315.18	-29.74	1315.15	0.87	-0.28	-0.83	
6041.00	89.08	350.49	4825.66	1377.37	-39.77	1377.34	1.89	-1.52	-1.11	
6135.00	89.52	349.70	4826.80	1469.96	-55.94	1469.92	0.96	0.47	-0.84	
6230.00	89.87	351.54	4827.31	1563.69	-71.42	1563.63	1.97	0.37	1.94	
6324.00	89.34	352.60	4827.96	1656.78	-84.39	1656.72	1.26	-0.56	1.13	
6420.00	91.19	353.74	4827.51	1752.10	-95.81	1752.02	2.26	1.93	1.19	
6515.00	90.22	356.03	4826.35	1846.70	-104.28	1846.62	2.62	-1.02	2.41	
6611.00	89.96	357.52	4826.19	1942.55	-109.68	1942.46	1.58	-0.27	1.55	
6705.00	90.92	359.63	4825.47	2036.51	-112.01	2036.42	2.47	1.02	2.24	
6831.00	90.04	359.01	4824.42	2162.49	-113.51	2162.41	0.85	-0.70	-0.49	
6958.00	91.98	1.21	4822.18	2289.46	-113.27	2289.37	2.31	1.53	1.73	
7085.00	91.36	0.68	4818.48	2416.39	-111.17	2416.30	0.64	-0.49	-0.42	
7244.00	91.01	1.12	4815.19	2575.33	-108.68	2575.25	0.35	-0.22	0.28	
7370.00	88.81	0.68	4815.39	2701.31	-106.70	2701.23	1.78	-1.75	-0.35	
7496.00	88.37	359.98	4818.49	2827.27	-105.97	2827.19	0.66	-0.35	-0.56	
7655.00	88.37	0.86	4823.01	2986.20	-104.81	2986.12	0.55	0.00	0.55	
7814.00	87.85	0.77	4828.25	3145.10	-102.55	3145.02	0.33	-0.33	-0.06	
7972.00	87.58	1.21	4834.55	3302.95	-99.82	3302.87	0.33	-0.17	0.28	
8131.00	88.64	1.30	4839.80	3461.82	-96.34	3461.75	0.67	0.67	0.06	
8221.00	88.72	2.18	4841.87	3551.75	-93.61	3551.68	0.98	0.09	0.98	
8315.00	90.92	1.65	4842.17	3645.69	-90.46	3645.62	2.41	2.34	-0.56	
8441.00	91.19	1.83	4839.85	3771.61	-86.64	3771.55	0.26	0.21	0.14	
8536.00	90.75	0.95	4838.24	3866.57	-84.34	3866.51	1.04	-0.46	-0.93	
8592.00	90.75	0.95	4837.50	3922.56	-83.41	3922.49	0.00	0.00	0.00	

EOG Resources

Field: Thames Field
Site: New 25 Fed #1H
Well: New 25 Fed #1H
Wellpath: Original Hole
Survey: Pathfinder MWD Surveys

PATHFINDER

COMPANY DETAILS

EOG Resources
4000 N. Big Spring, Ste. 500
Midland, TX 79705

Calculation Method: Minimum Curvature
Error System: Systematic Ellipse
Scan Method: Closest Approach 3D
Error Surface: Elliptical Conic
Warning Method: Error Ratio

SITE DETAILS

New 25 Fed #1H
S-25, T-25S, R-24E

Site Centre Northing: 686960.30
Easting: 437987.90

Ground Level: 3647.00
Positional Uncertainty: 0.00
Convergence: -0.11

WELLPATH DETAILS

Original Hole

Rig:
Ref. Datum: SITE 3647.00ft

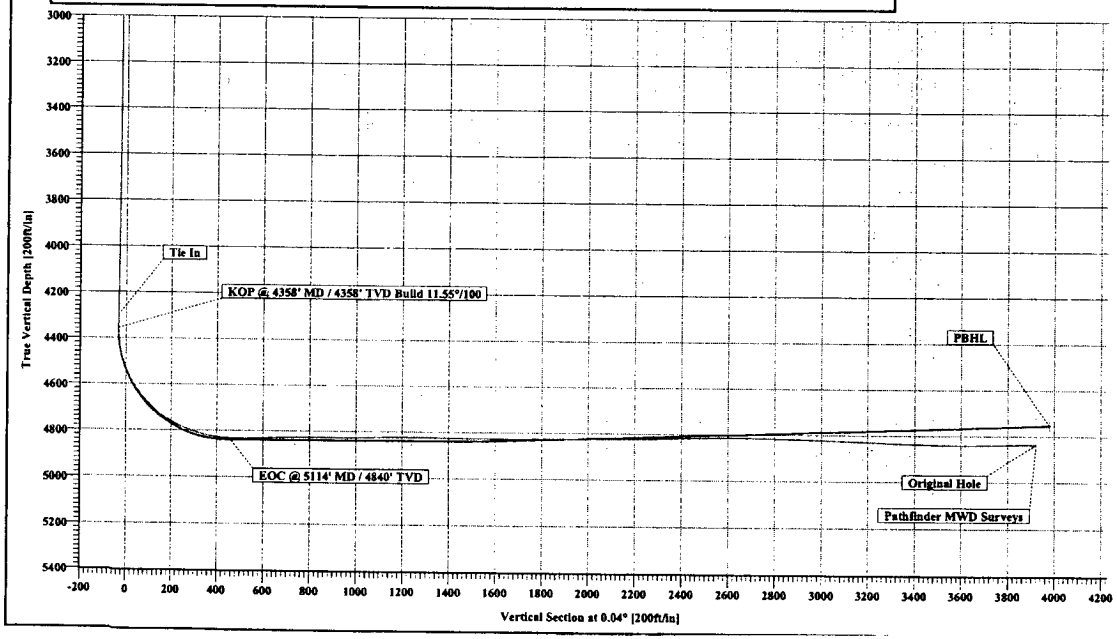
V.Section Angle	Origin +N/-S	Origin +E/-W	Starting From TVD
0.04°	0.00	0.00	0.00

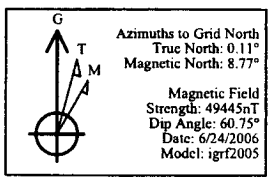
Survey: Pathfinder MWD Surveys (New 25 Fed #1H/Original Hole)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
45	5978.00	90.04	351.19	4825.17	1315.18	-29.74	0.87	-108.76	1315.15
46	6041.00	89.08	350.49	4825.66	1377.37	-39.77	1.89	-143.90	1377.34
47	6135.00	89.52	349.70	4826.80	1469.96	-55.94	0.96	-60.89	1469.92
48	6230.00	89.87	351.54	4827.31	1563.69	-71.42	1.97	79.24	1563.63
49	6324.00	89.34	352.60	4827.96	1656.78	-84.39	1.26	116.57	1656.72
50	6420.00	91.19	353.74	4827.51	1752.10	-95.81	2.26	31.64	1752.02
51	6515.00	90.22	356.03	4826.35	1846.70	-104.28	2.62	112.94	1846.62
52	6611.00	89.96	357.52	4826.19	1942.55	-109.68	1.58	99.90	1942.46
53	6705.00	90.92	359.63	4825.47	2036.51	-112.01	2.47	65.53	2036.42
54	6831.00	90.04	359.01	4824.42	2162.49	-113.51	0.85	-144.83	2162.41
55	6958.00	91.98	1.21	4822.18	2289.46	-113.27	2.31	48.57	2289.37
56	7085.00	91.36	0.68	4818.48	2416.39	-111.17	0.64	-139.48	2416.30
57	7244.00	91.01	1.12	4815.19	2575.33	-108.68	0.35	128.50	2575.25
58	7370.00	88.81	0.68	4815.39	2701.31	-106.70	1.78	-168.69	2701.23
59	7496.00	88.37	359.98	4818.49	2827.27	-105.97	0.66	-122.17	2827.19
60	7655.00	88.37	0.86	4823.01	2986.20	-104.81	0.55	90.01	2986.12
61	7814.00	87.85	0.77	4828.25	3145.10	-102.55	0.33	-170.19	3145.02
62	7972.00	87.58	1.21	4834.55	3302.95	-99.82	0.33	121.56	3302.87
63	8131.00	88.64	1.30	4839.80	3461.82	-96.34	0.67	4.85	3461.75
64	8221.00	88.72	2.18	4841.87	3551.75	-93.61	0.98	84.81	3551.68
65	8315.00	90.92	1.65	4842.17	3645.69	-90.46	2.41	-13.55	3645.62
66	8441.00	91.19	1.83	4839.85	3771.61	-86.64	0.26	33.68	3771.55
67	8536.00	90.75	0.95	4838.24	3866.57	-84.34	1.04	-116.56	3866.51
68	8592.00	90.75	0.95	4837.50	3922.56	-83.41	0.00	0.00	3922.49

ANNOTATIONS

No.	TVD	MD	Annotation
1	4299.63	4300.00	Tie In
2	4357.56	4358.00	KOP @ 4358' MD / 4358' TVD Build 11.55°/100
3	4832.09	5113.91	EOC @ 5114' MD / 4840' TVD





Azimuths to Grid North
True North: 0.11°
Magnetic North: 8.77°

Magnetic Field
Strength: 49445nT
Dip Angle: 60.75°
Date: 6/24/2006
Model: igrf2005